

H-89-21

Roll No.....

Annual Examination, 2021

B.C.A. III (New Course)

B.C.A.-304

Paper IV

(Software Engineering)

Time : 3 Hours]

[Maximum Marks : 80

Note : Attempt any *two* parts from each unit. All questions carry equal marks.

Unit I

1. (a) What are software development paradigms ?
Describe each in detail. 8
- (b) Explain in brief software requirements specification standards. 8
- (c) What do you mean by partitioning and projection ?
Explain it in brief. 8

Unit II

2. (a) Explain the concept of Coupling and Cohesion in software design. Discuss the ideal requirement of Cohesion and Coupling for a good software design.

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- (b) What are the differences between Process oriented design and Data oriented design ? Explain it. 8
- (c) Write the short notes on the following :
 - (i) Object oriented design,
 - (ii) Design Documentation Standards.

Unit III

3. (a) What are the role of case tools ? Explain the relevance of case tools. 8
- (b) What are the differences between Data flow diagram and Entity relationship diagram ? Explain it.
- (c) Write the short notes on the following : 8
 - (i) Re-engineering legacy systems.
 - (ii) Coding standards.

Unit IV

4. (a) What do you mean by system testing ? Explain any two system testing. 8
- (b) Define the mechanism of cost estimation for a Software project. Explain the COCOMO model.
- (c) Write the short notes on the following :
 - (i) Rayleigh curve,
 - (ii) Debugging and reliability analysis.

Unit V

5. (a) What do you mean by work background structures of project management ? Explain it. 8

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(b) What are the differences between software design and Project planning ? Explain it. 8

(c) Write the short notes on the following : 8

(i) Project Monitoring and Controls,

(ii) Integrating Software.

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